

# MATERIAL GRADES OF STATICALLY CAST ROLLS



- **Chemical composition material 428838:**

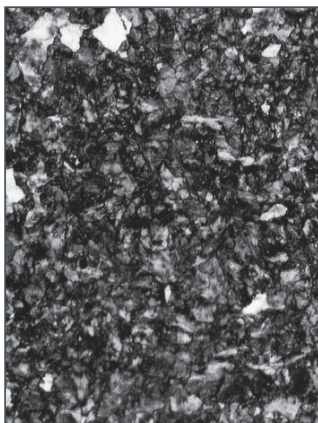
Chemical composition [%]								Barrel Hardness
C	Mn	Si	Pmax	Smax	Ni	Cr	W	[HB]
0,6-0,8	0,5-0,8	0,2-0,5	0,030	0,030	0,5-0,7	1,3-1,7	0,9-1,2	270-330

- **Mechanical properties of barrel material (min.):**

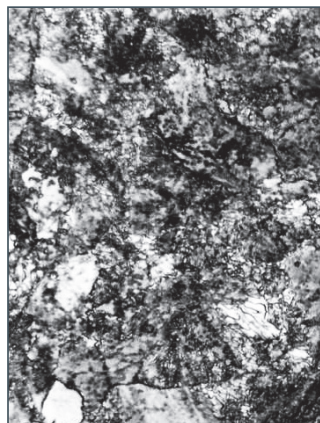
TENSILE STRENGTH [MPa]	750-950
YIELD LIMIT [MPa]	420-600
BENDING STRENGTH [MPa]	1350-1800

- **Microstructure:**

100x



500x



- **Characteristic microstructure:**

Perlitic matrix with finely distributed carbides.

- **Applications:**  
pilger rolls